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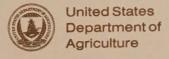
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URBAN AND COMMUNITY FORESTRY: CHALLENGING THE WEST





Forest Service State & Private Forestry



URBAN AND COMMUNITY FORESTRY: CHALLENGING THE WEST

Special Thanks to

Denver Urban Forest

Council of Western State Foresters

Nebraska Forest Service

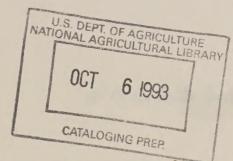
USDA Forest Service Pacific Northwest Region



For comments or inquiries contact Jacqueline Leonard, Forest Service Rocky Mountain Regional Office, Denver.

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INTRODUCTION

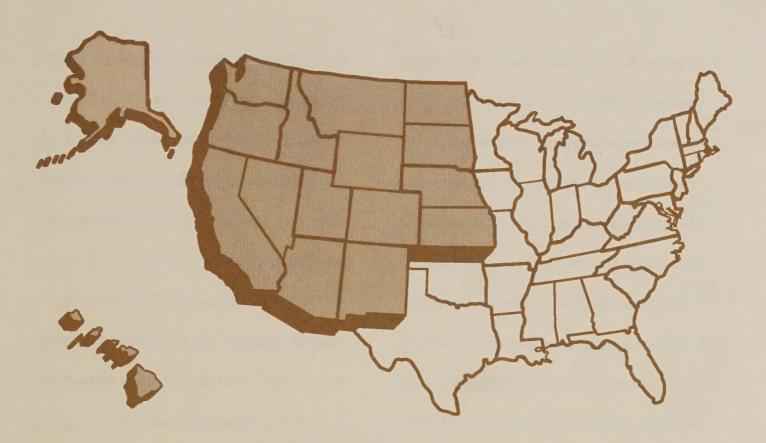


- ▲ The Urban and Community Forestry program promotes and improves the economic, environmental, and social well-being of communities through the planting and management of trees, shrubs and other vegetation. These efforts enhance the urban environment and make important contributions to soil, water, and air quality. The benefits of trees in urban environments are endless. Trees shade homes and buildings and improve landscape aesthetics. Trees increase property values, conserve energy, provide valuable wood products for human needs, and provide jobs that strengthen the local economy.
- ▲ The 1990 Farm Bill generated additional interest and funding for the Urban and Community Forestry Program. This new legislation fortified the authority of the U.S.D.A. Forest Service, working with and through State forestry agencies to provide information, education, technical assistance and challenge

- cost -share programs for communities.
- ▲ As a result of this legislation, each state is currently provided with an annual base funding of \$150,000 in support of an urban and community forestry staff and an advisory council.
- A Remaining appropriated funds are divided by formula among three U.S. geographic regions: the Northeast, South, and the West. Within regions the funds are further divided for allocation to each state, some resulting in grants to local communities for tree care and planting efforts.
- ▲ Each region is comprised of a unique blend of geography, climate, population and history that sets it apart from the others: the Northeast with its densely populated urban centers and industrial complexes, the South with its intensively managed agriculture and timber industries, and the West with its great diversity of rugged landscapes, varied climates and endless open space.

THE WESTERN REGION





▲ This magnitude of diversity is unique to the West and not only creates tremendous opportunities for growth and innovation, but also creates challenges for urban forest managers to establish and maintain sustainable urban forests for future generations.

↑ This publication features the Western

Region. It provides a profile of the incredible diversity of the west, which includes 17

states and the territories of American Samoa,

Commonwealth of the Northern Marianas and

Guam. The unparalleled diversity that abounds
in the West creates challenges and opportunities
to western urban and community foresters. The

West features:

- The most populated state California
- The least populated state Wyoming
- The highest point Mt. McKinley, 20,320 ft.



- The lowest point Death Valley, 282 ft. below sea level
- Sparsely populated rural communities
- · Fastest growing urban sprawl
- Rolling plains and rugged mountain peaks
- Numerous ethnic backgrounds, from Eskimos in Alaska, to the Navajo Indians in Arizona
- ▲ The management of urban forests in this region is increasingly important because community populations are increasing. Benefits of well-managed community forests include increased property values, more attractive business and residential districts, lowered risks of wildfire in the urban/rural interface, increased wildlife habitat, and enhanced community pride.
- ▲ While the definition of Community Forestry is standard throughout the country, states and communities in which these duties are carried out are quite different.

- ▲ Application of community forestry is just as important to the 895 residents of Dubois,

 Wyoming as it is to the 10,000,000 residents of

 Los Angeles County, California. Large or small,

 every community and its residents deserves to

 benefit from community forestry.
- ▲ Few communities in the Western Region exceed a population of 30,000 and many are in rural settings. While the population of the West is diverse, it is relatively sparse, particularly when compared to the East.
- ♣ Regardless of community size or location, a

 phenomenal interest in community tree

 management is occurring throughout the West.

 As a result, there are more trees being planted in communities for the wide variety of benefits they provide.
- ▲ The Western Region's diverse climates, land areas, and people all contribute to the need for quality management of community trees.

ALASKA



Alaska is a vast land with several distinct ecological regions, climatic and geographic extremes, and a great variety of environmental conditions. Alaska also has a rich cultural diversity that includes four distinct native groups. While half of the state's population lives in Anchorage, many Alaskans live in widely-scattered and remote villages accessible only by plane or boat.

▲ Many Alaskans have embraced the

national tree-planting initiative

because it provides the
support and guidance needed
to beautify and support
ecological balance
within communities. Trees and forests
provide economic, physical and spiritual
sustenance to Alaskans who work, recreate and
live in the forested areas of the state. Beyond

the environmental and aesthetic benefits, tree
planting and care are educational experiences
that can promote community pride, cooperation
and volunteerism.

▲ Many communities in Alaska have

experienced rapid growth and expansion. Some

communities in treeless parts of the state have

requested assistance in planting trees, shrubs and

perennials that can survive in their unique

environment. Research is needed in developing plants and methods of planting and care that are suitable to harsh climates.

In Alaska there are few tree-

some areas, so many trees that people overlook the value of them.

▲ In 1991, Alaska hired its first Community

Forestry Coordinator and formed the Alaska



Community Forestry Council. The council helps the Division of Forestry determine the emphasis, objectives and priorities for the state's Community Forestry Program. The state and the council will focus on achieving the following objectives in the next five years:

- Maintain an active Alaska Community
 Forestry Council and support council projects
- Establish local community tree boards and advisory committees
- Provide information, training, and education on the proper techniques for retaining, planting and caring for community trees
- Enhance the understanding and technical skills for sound vegetation maintenance and arboricultural practices
- Increase the number of citizens informed and involved in local volunteer efforts in tree planting and care

- Encourage more local governments to develop effective, long-term, community forest and tree, shrub and perennial management programs
- Encourage state agencies, local governments, industry, private businesses, civic groups and individuals to support and fund community forestry activities
- Increase trees and shrubs planted and cared for in communities on public and private
 property during development and expansion
- Support programs involved in research,
 introduction or trials of new tree, shrub and
 perennial varieties



And just how big is Alaska?

Big. Enormous. It's about the same distance across

Alaska as it is from San

Diego, California to Savannah,
Georgia, about 2,400 miles.

Size: 570,000 square miles Population: 550,000

ARIZONA



Arizona is a land of extraordinary
environmental diversity created by its unique
geological formations and many climates.

Dominated by four distinct geographic regions
and vegetation zones, the state's nearly 114,000
square miles of land offers some remarkable
contrasts: the plateaus of the north and
northeast, the desert and plains of the south and
southwest, the broad band of mountains in
between and the shrub steppe area in
the southeast.

Although Arizona has the sixth largest land area in the nation, and most towns and cities have low population densities, it is classified as urban rather than rural.

The Forestry Division of the Arizona Land

Department is in charge of urban and

community forestry programs. The areas of

emphasis are:

- Provide technical assistance to communities
- Encourage individuals and communities to maintain and increase the urban forest
- Provide education and awareness of the benefits of a healthy urban forest
- ▲ The Urban and Community Forestry goals for

 1992 with evaluation and monitoring of the

 program is an ongoing process. 1992 marks the

Department Forestry Division

Urban and Community Forestry

Program. Five goals have been established for the year along with recommended priorities for each. They are:

- Fully implement the goals and objectives of the

 America the Beautiful program
- Increase the level of community and general



public awareness of the resource value

- Provide assistance to all organizations in the state to attain tree planting, care and maintenance
- Develop inter-agency and public/private
 partnerships for long term benefits to the
 urban and community forestry programs
- Administer grants and develop new funding opportunities to promote tree plantings



The construction of this four-lane highway project did not include any landscaping plans, and left this and other medians in a "raw" unfinished condition.

Responding to pressure from various individuals and community groups, the Town Council of Cave Creek, Arizona appointed an advisory committee to design, maintain and landscape Cave Creek Road. The small town, population 2,500, donated their time, energy and talent to raise money and beautify the unsightly median.



CALIFORNIA



- ▲ The third largest state in the Union,

 California stretches nearly 1000 miles between

 32° and 42° north latitude along the Pacific

 Coast. California varies in width between 150 and 365 miles.
- Three-quarters of the state's 158,693 square miles is rolling hills and high mountains. Mt.

 Whitney soars to 14,494 feet, the loftiest peak in the United States outside

 Alaska. In contrast, the lowest point in the Western

 Hemisphere- Bad Water, with an elevation of 282 feet below sea level- lies just 60 miles east of Mt. Whitney.
- ▲ Every life-zone found on the North

 American continent is also found in

 California. California enjoys a temperate

 climate, generally milder and more uniform than

elsewhere in the nation. The seasons tend to blur together. However, within its boundaries, exceptions are found - extreme hot and dry deserts, high mountains with perpetual ice and snow, rain-soaked and fogbound stretches of coast. The warm belts, most characteristic of the state and where most of the population resides, lie below 2,000 feet.

▲ The number of people in the State has

doubled every 20 years for over a century.

According to a recent census, California has 30 million inhabitants, more than any other state

in the Union. The majority live in the

drier, southern part of the state, and

more than 10,000,000 live in Los

Angeles County.

▲ To meet the challenges of the diversity of the urban ecosystem and urban population, California's Urban and Community



Forestry Program has identified the following goals for the 1990's:

- Improve the health of California's urban forests
- Increase the sense of stewardship for urban forests among California residents
- Increase priorities for urban forestry funding within communities
- Promote integration of urban forestry with all other components of the urban ecosystem

- Provide means for people to participate in tree planting activities
- Increase understanding of how the urban forest functions and the costs and benefits of managing it
- Educate children, citizens, government and professionals about urban forest planning,
 planting and management
- Promote educational and participatory
 programs to protect the public from fire danger



Urban Forests are usually created by the communities that live in them. This urban area was forested after development.



▲ Colorado is a physically, environmentally, and culturally diverse state. Communities exist on arid plains at an elevation of 4000 feet to high mountain valleys of 10,000 feet. The climate is equally extreme, with much of the plains and western plateaus receiving less than 14 inches of moisture. Mountain communities are faced with very short growing seasons.

▲ The Colorado Front Range is a 300 mile

band of 40 cities from Wyoming to New Mexico where 80 percent of the state's population dwells.

The remaining population enjoys living in approximately 300

small, rural communities. The majority of Colorado's communities have a population range of 1,000 to 10,000.

▲ Over a hundred years ago, pioneers establishing farm, ranch, railroad, or mining communities

usually designated someone to be in charge of tree planting and irrigation. Many trees were transplanted from riparian areas or hauled by wagons and trains from eastern nurseries, even before residences were constructed. With persistence and dedication, citizens created hardy community forests.

▲ Dutch elm disease struck Colorado in the late

1960's. Communities and the Colorado State

Forest Service worked jointly to implement effective elmwood sanitation programs. These practices continues to minimize American elm losses. Other

problems of "unmanaged" community forests

needed results from a permanent urban forestry

program. The Colorado State Forest Service

developed a Community Forestry Program which

emphasizes the creation of local community tree





boards followed by assessment of the tree resource. Annual and long range plans are then developed and implemented by local leaders and volunteers. Field foresters from state and federal agencies provide the necessary technical advice and guidance when needed.

▲ The Farm Bill is making an impact at the local level by providing extra human resources, educational and technical assistance, and overall community forestry development.

By the year 2000, Colorado will have:

- More effective partnerships and volunteer coordination
- Communities planning 3 to 5 years ahead for their tree programs
- Earnest educational programs informing citizens about tree planting and care
- Opportunities for private and corporate contributions to improve the state's community tree
 resource

Several funding sources to help communities
 educate their citizens and improve their tree
 resource



Treetures are furry, fantasy characters that are part of a new environmental education program to promote tree planting and teach children the benefits and values of trees.

HAWAII



Legislature.

▲ Located in the middle of the Pacific Ocean,

Hawaii has an area of 6,425 square miles.

About 75 percent of 1,108,229 people living in

Hawaii, reside on Oahu. The National Arbor

Day Foundation (NADF) has recognized three

of four Hawaii Counties as a Tree City USA. In

addition, NADF recently awarded the

prestigious Growth Award to Oahu and Maui

Counties. All four counties

have established their

Arborist Committee as

mandated by the State of Hawaii

Hawaii's Counties include: Kauai County
serving the islands of Kauai and Niihau; City
and County of Honolulu serving all of the island
of Oahu; Maui County serving the islands of
Molokai, Lanai, Kahoolawe, and Maui; and
Hawaii County serving the island of Hawaii.

- ↑ Unlike other states, the urban forests benefit from Hawaii's abundant rainfall and optimum growing climate. Interestingly enough, Hawaii's economy depends on its environment. Its pleasant climate and natural beauty bring tourists from all over the world. The lush green forests, vibrant coral reefs, and crystal clear waters provide both scenic value and revenue for the state.
- ♣ Hawaii possesses a wealth of unique plants, animals and ecosystems. Trees in Hawaii rarely suffer through cold winters; in fact, Hawaii has such ideal growing conditions that the islands are home to more unique plant species than any place of similar size on earth. Over 90 percent of Hawaii's plants are native only to Hawaii.
- ▲ The need to develop statewide network of urban forestry began in 1992, when the state's



Division of Forestry and Wildlife created the Kaulunani, Hawaii the Beautiful Council to help improve the management of urban trees in Hawaii. In part, this Council provides grass-roots leadership in urban forest management. It complements a national emphasis for community forestry, namely, the America the Beautiful (ATB) program. Next year, a bill will be introduced in the legislature to establish a state urban and community forestry program.

Some of the goals and emphasis of the Kaulunani, Hawaii the Beautiful Council include:

- Improve the quality of urban forest management in the state
- Increase the number of volunteer groups by strengthening community partnerships
- Raise the public's awareness to managing
 urban trees by developing and distributing
 educational materials on native and other trees

IDAHO



▲ Community forestry has been practiced in Idaho since the late 1800's. A tree ordinance was adopted for Boise to protect the scarce tree resource in the early 1900's. While just three communities presently have a paid city forester, many others incorporate technical urban forestry or arborist activities with the duties of the parks or streets departments.

No community forestry infastructure existed before funds for U&CF were allocated from Congress.

↑ Idaho's diverse geography shapes
the community forestry program.

The mountain range and
topography in the southeast and
the high desert in the southwest
support the majority of the citizenry.

▲ Idaho's urban forest is in slightly poorer condition than the national average. This

condition may be related to the fact that Idaho
has a larger percentage of large, older trees which could be declining with age.

▲ Idaho has over 208 urban areas (including 199 incorporated towns). The population of Idaho, according to the U.S. Census Bureau, is 1,006,749. Idaho's total land area is 83,564.

♠ "Urban" is used loosely to describe
developed areas with a concentration of people.
These communities cover 564 square milesyielding a potential urban forest of 361,000
acres. The large number of small communities
necessitates that Idaho rely upon the
volunteer component of the urban
forestry program.

▲ Based on recent information

(Urban Forests, Vol. 2, No. 4, Aug/Sept 1991),

two private tree spaces exist for every vacant

street tree space. This ratio would mean that



Idaho has approximately 4,300,000 available tree planting spaces.

- ▲ Over a quarter of the communities' forest resources are in fair or poor condition approximately 1.9 million trees! Through proper maintenance, removal and replanting and better species selection, the value of urban forest resources could be increased by approximately \$3 billion.
- ▲ Some of the state's goals for community forestry include:
- Complement informational literature with training
- Consolidate training with the city, county and state agencies in order to train wider audiences

and provide greater homogeneity in educational objectives

- Train, certify and consult arborists
- Conduct citizen forester courses for the novice homeowners and volunteers
- Provide technical training courses in using specialized equipment or techniques
- Increase the level of expertise statewide
- Complement the state and local efforts, with volunteer organization and training
- ▲ The Idaho Nursery Association, through the
 Urban and Community Forestry Advisory
 Council, will continue to work with the state
 urban forestry program.

KANSAS



▲ Kansas is characterized by a diverse geography and an agricultural economic base.

The state's 783 cities and towns occupy about 1.64 million acres or 3.1 percent of the state land area, of which 1.15 million acres is planted to a highly specialized urban and community forest. This urban forest resource is valued at over \$1.3 billion.

▲ The Kansas urban forest is a planted resource. Seldom did cities develop in natural

wooded areas. Kansas,
during settlement was
characterized by prairie
grasses; similarly as our
present day cities expand,

such growth occurs in cultivated fields and other agricultural land that is not tree covered.

▲ Because of climate constraints and the relative scarcity of trees in much of the state

our citizens genuinely appreciate trees and value them in their cities.

▲ Kansas enjoys a long history of urban and community forestry programs beginning with a pilot state-wide effort in July 1971. In 1991, Kansas had active programs in 90 cities and tree planting projects in 61. Approximately 68 percent of 90 program cities earned the Tree City USA award which is a reflection of the high program quality that exists.

The America the Beautiful program (ATB) allowed

Kansas to greatly expand urban forestry especially in the area of volunteerism. A

statewide Urban Forestry Council with 233 members is in operation and has instituted numerous educational programs. Some examples include:



statewide preferred tree program, tree rebate program, tree care publications, arborist training, tree care workshops, tree board training, and legislature education.

♣ Presently, 53 percent of all Kansans live in

city involved in urban and community

forestry. These people and more will continue

to enjoy the benefits of solid statewide urban

forestry program.



Urban trees are not in their natural setting, at they require special care and maintenance to live and grow.

MONTANA



▲ Montana's population is sparse and unevenly distributed. Only Alaska and Wyoming have a lower population density.

↑ The fourth largest state in the United States,

Montana has an area of 147,046 square miles.

Montana's urban forests span a wide range of
terrain and climatic conditions, from the heavily
timbered valleys of western Montana to the open
prairie of eastern Montana. Because of the

Montana's large land area and differing climatic
conditions, many of its
communities encounter unique

forests. U&CF programs in the state

need to work on identifying stock suitable for
harsher sites.

challenges in maintaining and

improving their community

▲ With about 130 incorporated communities and many other unincorporated areas, Montana

faces obstacles in coordinating and training its communities for U&CF purposes.

Many of the state's communities need to start
with basics of urban and community forestry to
fit their individual needs. Some of the special
goals and emphasis areas for the state include:

 Develop statewide awareness about the importance of community forests and encourage citizens to support and participate in comprehensive community forestry

programs

Develop communities
 with the leadership,
 organization, and resources
 to carry out successful

community forestry programs

 Make technical advice and assistance readily available for administrators, citizen volunteers, and tree care professionals as they develop



leadership and carry-out community forestry management plans

AAA SPECIAL ACCOMPLISHMENT AAA

Montana Department of State Lands is in the conceptual stages of designing an arborist technical workshop for the nine reservations located in Montana. The workshops will focus on training in ■ number of arborist skills, safety and equipment use. Three of the objectives of the program are improving tree care in communities on reservations, diversifying individual technical skills, and attracting tribal members into the International Society of Arborists and National Association of Arboriculture.



Properly placed and cared for trees, such at these, significantly increase residential and commercial property values.

NEBRASKA



▲ Located in the heart of the Great Plains
region of the United States, Nebraska has a total
land area of 49 million acres. Over one-third of
the state's population resides in the southeastern
portion of the state. Only three of the 535
incorporated communities have a full time
professional forester or arborist to care for
public trees. Twenty- nine of these communities
have populations of over 5,000 while 390 are
classified as villages with populations of less
than 800 people.

country is not the best

place to be a tree. Much

of the state, particularly

the western half, was at one time a

treeless plain. The stressful environmental

conditions caused by very cold winters and hot,

dry summers can weaken and disrupt the pro-

▲ This region of the

gression of growth and development of trees and shrubs. Research efforts in physiology and tree improvement are continually looking for species that show optimal growth under such stressful conditions.

▲ In 1991, the Nebraska Forest Service (NFS) initiated the creation of the Nebraska Community Forestry Council as a part of a national emphasis on community forestry entitled

America the Beautiful (ATB). This council plays an important role in implementing the

ATB program as approved in the

1990 Farm Bill. The NFS is

now working with the

council to improve the State's

community tree resource through a comprehen-

community tree resource through a comprehensive program of education and technical assistance. Heavy emphasis will be placed on



projects that will achieve both public and professional education goals. The NFS will continue to support the Nebraska Arborist Association and the annual Arborist school which will include in increased emphasis on tree care workshops as well as locally produced "how to" publications designed with the homeowner in mind.

The council has also moved to establish five district committees that will bring the program directly to the community level.

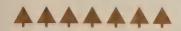
- ▲ The Nebraska Forest Service and the Nebraska Community Forestry Council have identified the following program areas to be emphasized over the next five years:
- Develop an effective community forestry
 council
- Assist with volunteer activities
- Promote public awareness and education

- Develop partnerships
- Continue to expand technical assistance to communities
- Seek out and promote grants
- Monitor and evaluate the total program

AAA STECIAL ACCOMPLISHMENT AAA

The village of Cook typifies the spirit of the people of Nebraska. This community of just over 300 people was selected as the best small town in America in 1992. The tree board is the most active in the state, securing three major grants for tree improvement in recent years. In Cook, the tree board is so well thought of that there is a waiting list of people to serve.

MENADA



A Nevada has population of 1.2 million. The

Las Vegas and Reno urban areas contain

approximately 80 percent of the population. The

remainder of Nevada's population lives in

smaller towns and communities throughout the

State. Nevada is (per capita) the fastest growing

state in the nation. Las Vegas, for example, is

growing at the rate of 4,000 people a month.

▲ Nevada is the driest state in the Union.

Rainfall in the state varies from less then 4 inches per year in Las

Vegas to a soaking 10 inches in some of the Northern areas.

Temperatures can reach 125° in the

summer and plunge to -40° in the winter.

This extreme climate has made trees a scarce commodity and hence extremely valuable and important to residents.

▲ The challenges of growing trees in this harsh

environment are exceeded only by the rewards.

Nevada's trees provide many economic benefits
to it's communities; enticement to travelers and
businesses, improved property values, shade to
communities in the summer and shelter from
cold winter winds.

Working together the Nevada Division of

Forestry and the Nevada Shade Tree Council are
tackling the challenge of maintaining and

enhancing the Urban Forests of the Silver State. Together they have identifyed the following areas to be emphasized over the next 5 years.

- Develop a comprehensive analysis of the states urban forest
- Promote public awareness, education
 and involvement
- Strengthen and develop partnerships with volunteer groups, communities, local



businesses, corporations and public agencies

- Continue research in species selection and adaptation, water conservation and the energy saving benefits of trees
- Provide technical and financial assistance to communities to develop, implement and expand Urban Forestry programs
- Continue minority outreach and involvement programs
- Assist Nevada communities to develop and complete urban forest inventories

AAA SERSIAL ACCOMPLISEMENT AAA

An early goal for Urban Forestry in Nevada involved an effort to reach out to and involve minority groups. As a result assistance was provided to the Reno/Sparks Indian Colony to plan, design and fund a community park in treeless area of their Hungry Valley Community. Volunteers from the community and the tribe worked together from the beginning to make the project a team effort. The planting at the park was incorporated into workshop to show local residents the proper way to plant trees and the species that work well in their area.

NEW MEXICO



▲ A state of the American Southwest, New

Mexico is part of the "Old West" of cattle

drives, cowboys, and clashes between pioneers

and Apache Indians. In the vast flatness of the

Great Plains and the rough, weather-scored

peaks of its mountain ranges, it still retains much

of its frontier flavor.

▲ New Mexico is semi-arid state where the high plains meet the majestic Rocky Mountains.

While some areas are relatively flat, it also has some of the nations most

has only 258 square miles of water in the form of lakes and rivers.

With a total land area of 121,593 square miles, the nation's fifth

rugged mountains. Also, the state

largest state faces quite a challenge to maintain an urban forest.

▲ Despite New Mexico's traditionally rural

ways, it is becoming urbanized. Nearly half of the population lives in a metropolitan area.

The state has a population of 1.49 million people living in over 77,000 square miles. This population is dispersed among 99 villages, towns and cities. Nearly one- half of New Mexico's communities have populations of less than 1,000 people.

▲ The high percentage of towns with small

populations make it difficult to
initiate economically feasible
urban forest programs within
individual communities. Budgets
in small communities are tight
and tree planting and maintenance
are not normally within the

financial reach of small communities. New

Mexico has a diverse Urban Forestry Council

which consists of over 50 individuals. The



council provided valuable input into the preparation of the state's five-year plan. Goals and objectives were realistically set which will guide the state during the next five years. The goals endorsed by the council are •• follows:

- Administrate state and federal tree planting grant programs
- Determine current status of urban tree resources for all communities in the state
- Have each community establish its own
 planting goal and help them reach that goal

- Develop and expand partnerships with private,

 public and neighborhood associations which

 will cultivate the concept of using tree planting

 as a vehicle to promote sense of community
- Sustain the New Mexico Urban Forest Council
 with open membership
- Publish an urban tree selection guide
- Expand the observance of Arbor Day
- Develop awareness in the public attitude of the economic, environmental, social and psychological benefits that trees provide
- Develop a certification program that insures
 well trained, competent and knowledgeable
 work force

NORTH DAKOTA



▲ North Dakota is furthest North of the Great

Plains States, home to the geographical center

of North America, and the least forested state in

the U.S. Demands for community forestry

assistance increase each year as North Dakota's

population becomes more urban. The 1990

Population Census for the State counted

638,800 residents. Seventy percent of these

residents live in 367 incorporated communities.

A Though only twelve of these communities exceed 5000 residents, seven cities employ fulltime urban forestry professionals responsible for the planting, care and management of public tree resources.

The North Dakota Forest Service helps

communities across the state in the development

of tree planting plans, short and long term

forestry management plans, shade tree ordinances, and pest surveys. Workshops covering wide variety of forestry topics provide educational training to interested citizens and community leaders.

↑ Tree City USA, National Arbor Day

Foundation program which recognizes

communities across the nation for their forestry

program efforts, is very active program in

North Dakota. The state ranks 18th in the nation

with 31 Tree City USA's.

The desired outcome of the State

U&CF Program is to assure high

quality, functional, and attractive

second generation urban and

community forests. To effectively implement this program in the coming decade, six major program components have been identified:

• Establish and implement program management



and administrative procedures that will facilitate a substantial increase in local forestry program activities and effectively use the funds available

- Educate North Dakotan's as to the benefits of community trees and other natural resources.
- Mobilize community and other volunteer
 groups to join with trained professionals in
 planting and maintaining trees and develop
 opportunities to promote and recognize these
 activities
- Provide community leaders, volunteers,

homeowners, and others with the information and training necessary to plan and carry out tree programs

- Develop criteria and procedures for soliciting and reviewing proposals and awarding grants for State and National Challenge Cost-Share
 Programs, and develop state level authorizing
 legislation for U&CF
- Monitor and evaluate the program to assure
 efficiency and improvement and demonstrate
 to North Dakotan's and to the leaders of the
 state and nation what the program, with their
 help, has accomplished

OREGON



▲ The Cascade Mountain range divides the state of Oregon into 2 distinct geographic regions which encompass six USDA plant hardiness zones. The western third of the state is characterized by abundant rainfall in winter, averaging 60 inches in some locations, and prolonged droughts in the summer. Descending from an 11,000 foot mountain elevation down to sea level where communities withstand 70 mph winds, these different climatic conditions make for unique and different growing situations. The eastern two-thirds of the state is characterized by high elevations with hot summers and cold winters, and endures annual precipitation levels

as low as six inches.A Oregon grows some of the most beautiful

• Oregon grows some of the most beautiful trees in the world while it faces some of the

toughest climatic challenges of the world.

Oregon's population is as diverse as it's climate. Seventy five percent of Oregon's communities have population of 5,000 or less. Forty-five percent of the state's entire population lives in the metropolitan area of greater Portland, the states largest city. Only two Oregon cities employ professional urban foresters. Although Oregon's land area totals over 97,000 square miles, population growth

has been intense. Over 70

percent of the population

lives within ten miles of

Interstate-5, the major northsouth interstate highway in

western Oregon, leaving the eastern part of the state sparsely populated. In the 1980's, growth had a major development impact in this corridor, as Oregon and Washington lost an



estimated 75,000 acres annually to development.

- ↑ The economic and environmental well-being of Oregon has always been tied to trees.

 Assisting the Department of Forestry is the Oregon Urban and Community Forestry

 Council, made up of urban forestry leaders, professionals, and citizen activists. The Council's goals are to:
- Raise public awareness and appreciation of the value and importance of urban trees
- Help communities understand economic
 development and quality of life benefits from
 urban forestry programs
- Establish ongoing monitoring program

- Develop specialized assistance efforts for encouraging small communities to develop urban forestry programs
- Encourage and facilitate the development of locally organized and planned community
 volunteer efforts
- Develop cooperative strategies and
 partnerships to promote urban forestry
 awareness through educational programs
- Develop cooperative strategies and promote
 standards for planting and maintaining urban
 forests
- Develop long term funding strategies and opportunities for both public and private programs

SOUTH DAKOTA



▲ The Missouri River divides the state of South
Dakota into two distinct geographic regions of
almost equal size. East of the Missouri River is
the glaciated Prairie Plains region of fertile soils,
natural lakes, sloughs, potholes, and north-south
oriented rivers. Over 80 percent of the state's
309 incorporated communities and nine of the
ten largest cities are located in this region of
agricultural croplands. West of the Missouri are
the Black Hills, and the Great Plains region
where the rugged Badlands are located. Vast
tribal holdings of the Sioux
Nation, millions of acres of
sparsely populated rangeland,

▲ In addition to being a land of infinite variety,

South Dakota is a "land of savage extremes,"

and Rapid City, South Dakota's

second largest city, is also

located here.

with temperatures ranging from 40° below zero to 116° above. Average annual precipitation varies from 14 inches in the northwest to 26 inches in the southeast.

▲ Most of South Dakota was treeless grassland before settlement. Because trees are not part of the natural prairie environment they require special care to grow and thrive, especially west of the river. A few tree species, green ash, Siberian elm and American elm were overplanted in the past and today comprise

approximately 60 percent
of South Dakota's urban
forest. While these
species are drought
resistant and adapted to
South Dakota's harsh

conditions, many are experiencing serious insect and disease problems.



- ♣ South Dakota'a urban forestry program
 began in 1972, but did not expand and flourish
 until 1991 when Congress provided funding for
 the program. With assistance from the state
 and the federal funds, a 20 member State Urban
 Forest Council was formed to oversee the
 growing urban forestry movement, and the
 position of a full time program coordinator was
 established.
- ▲ The Urban Forest Council is beginning to address the many problems facing urban forests.

 Lack of species diversity, and proper care and maintenance of urban trees, are priorities. The Division of Forestry is cooperating with the Department of Horticulture and Forestry at South Dakota State University, Brookings, to support a position of Assistant Professor of Urban Forestry and Arboriculture which in addition to university duties is responsible for

statewide efforts in urban forestry education.

▲ The Tree City USA program is one of the Division of Forestry's highest priorities. As of 1992, two thirds of the state's urban population lives in a Tree City USA, which is targeted to increase three quarters in the next five years by working with smaller communities currently not in the program.

Grants made available through the urban forestry program have been instrumental in stimulating interest in urban tree planting.

Major goals of South Dakota's program are;

- Strengthen the state urban forest council and widen its scope of activities and level of responsibility
- Eliminate the program's dependency on federal funding
- Stimulate interest from smaller communities,
 especially Native American housing
 developments, which are in desperate need of trees

THE TURRICULURIES



kilometers, Guam is a unique blend of lush tropical limestone forest and tropical grassland.

The northern half of the island consists of highly alkaline limestone forest soils while the south has acidic volcanic soils. Annual rainfall ranges from 2000 to 2500 millimeters along the windward and leeward areas of Guam, respectively. The rainy season is July through

with the rainy season,
tropical depressions,
either storms or
typhoons, occur on an
average of 21 storm
events per year. A

typhoon has the potential to strike the island
with wind speeds of 280 kilometers per hour.
Throughout the dry season Guam is buffeted by

strong trade winds of 25 to 40 kilometers per hour.

▲ These environmental factors coupled with diverse cultures (Chamorro, Filipino,
Micronesian and Asian) offer distinct and unique challenges to urban forestry
professionals and persons interested in community tree planting projects.

Recognizing the important role of urban forests

in energy conservation, for aesthetics, cultural

values and as habitat for wildlife, the Governor of Guam, acting in concert with the Presidents ATB program is taking a lead role in re-greening Guam's urban areas.



♠ Working in close cooperation with theGovernor's "Island Beautification Program"Guam's Urban and Community Forester as well



as Guam's newly formed Urban Forestry

Advisory Council are targeting schools and
other public spaces (parks, roadsides, and
villages) as priority areas for tree planting.

Projects to date have included:

- Interacting with youth in schools to further the understanding of the important role urban forests play in energy conservation, aesthetics, shade and habitat for wildlife
- Working with local media on providing information to the general public about site selection, tree planting, and short and long term tree care
- Increasing local, private and government
 nursery capacity to accommodate the increased

demand for large canopied shade

- Expanding cooperative research efforts with
 University of Guam
- A writing contest for all school age youth
 focusing on the theme of "Benefits of planting more trees on Guam."
- Cooperative tree planting projects with local military units to re-green many of the local military installations
- ♣ Guam's Urban Forestry program is in its early stages. Continued strong support at the national and local levels will insure that the efforts taken today will flourish, leaving Guam with a legacy of vigorous urban forests for future generations



AMERICAN SAMOA: American Samoa is composed of five populated islands in the South Pacific. The islands are characterized by rugged volcanic mountains, small valleys, and a narrow coastal fringe. Approximately one half of the land has slopes of 70 percent or greater. The tropical climate and insular conditions have developed unique communities of native and endemic species.

- ▲ The people of American Samoa are

 dependent upon the islands' Natural resources

 of forests, soils, and coral reefs to maintain their

 traditional culture and lifestyles. The

 environmental and aesthetic value of natural

 areas are complemented by ornamental plantings

 in the villages. Nearly all villages are located on

 the coastal fringe.
- ▲ The coast line is threatened by an increase of hurricanes, (three in the past five years), and the predicted rise in sea level. The impacts of

- development and population growth on all vegetated areas are multiplying due to limited available land.
- ↑ The number of homes and businesses

 constructed on steep slopes is expanding onto

 mountainsides previously protected by native

 forest
- ♣ The potentially negative consequences of these conditions are being addressed through the urban and community forestry program in the territory. Projects for shoreline stabilization, village beautification, and preservation of threatened native forest communities are some of the objectives to be accomplished by the program's goals which include:
- Develop an effective Urban and Community
 Forestry Council
- Increase public awareness of community
 forest issues and appropriate remedial actions.
- Provide leadership, information, education,
 and technical assistance for community projects



COMMONWEALTH OF THE NORTHERN

Northern Marianas is an archipelago of 14 islands. Rota, Tinian and Saipan are the largest and contain almost the entire population. The CNMI has approximately 43,000 people spread un-evenly with approximately 40,000 on Saipan, 2,000 on Rota and 1,000 living on Tinian.

Particularly on Saipan, there has been massive economic expansion in the last 15 years. The increase in construction development quickly rose without much time for city planning. Rota and Tinian are struggling to maintain some control while the pressure is leaning to their islands.

▲ In March of 1992, the America the

Beautiful's Urban and Community Forestry

program was initiated by the Department of

Natural Resources. The America the Beautiful

committee plays ■ key role in decision making

and implementation of the many tree planting projects. The committee is well aware of the importance of not only planting trees but also in the identification of their appropriate planting places. There are many local examples of planting activities which were done in inappropriate locations due the rapid community growth. The ATB committee hopes to minimize this problem in the future as well as educate in the maintenance of trees with problems to improve their growth

- ▲ In addition to proper plantings, the committee is anxious to get the public involved in planting trees for the following reasons:
- Deforestation in the tropics leads to drastic environmental problems with soil erosion and suffocation of the coral reefs. Reforestation will help lower high energy costs from air conditioning and global warming





▲ Utah is state with unusual demographics. 1.8

million people call Utah home, and 85 percent

of them live on the Wasatch Front, a band of

land that is 20 miles wide and 100 miles long.

This mostly urban area contains only 42 percent

of the communities however. Forty-three

percent of Utah's incorporated communities are

towns with less than 800 people each. Most of

these small communities depend on ranching,

agriculture and tourism to support them

and have very small economic bases to

support community forestry.

▲ Utah's climate is not very conducive

to growing trees. Only Nevada

receives less annual precipitation than

Utah's average 13.7 inches a year. Low

precipitation, highly alkaline soils, hot summers, cold winters, low humidities, and ravenous
insects all combine to make tree planting

Young and the first pioneers arrived in the Salt

Lake Valley in 1847, they found no trees
growing there; virtually every tree growing in

Utah's communities has been planted and there
is much room for additional trees.

▲ The U&CF program is rising to the meet current challenges. Some emphasis areas include:

partners together into a single organization, known as TreeUtah, with various chapters

- Generate awareness of the value
 and benefits of trees
- Stimulate interest and promote

 community forestry management principles by

 offering tree care workshops, arborist training

 sessions and publishing related information



and educational documents to arborists,
nurseries, extension agents, foresters and the
general public

- Support and encourage scientific research and proper practices of arboriculture
- Extend outreach for challenge cost-share grants
 for tree planting and care
- Create a common forum via the Utah Community Forestry Council
- Establish ordinances, shadetree commissions,
 master plans, inventories and promote public
 awareness

★★★ EPSCIAL ACCOMPTIONMENT ★★★

Lake City wrote legislation to have their state appropriate funds for tree planting through the public schools. The students' efforts resulted in the extremely successful "Leaf-it-to-us" program. They have been successful in securing \$10,000 every year since 1990. With matching funds from the participating schools, they have raised over \$40,000 dedicated to tree planting in Utah. The funds also assist in creating outdoor education areas on school grounds.

WASHINGTON



♣ With seven distinct climatic zones, Washington State has some of the country's most diverse weather. Abundant rain falls in most of western Washington where the town of Forks averages 116.4 inches of rainfall annually.

Near- desert areas in eastern Washington's

Columbia Basin, Snake River and Moses Lake areas receive as little as 8.17 inches annually.

Washington's two largest population centers, the Puget Sound area and the Inland

Empire, are approximately
275 miles apart and separated by the Cascade Mountain Range.

▲ The varied climatic features contribute to

Washington's diversity of urban landscapes and

wealth. Communication and travel logistics

compound the challenge of the state's urban and

community forestry program.

▲ Cultural and community diversity and the many climatic growing areas underscore the need to develop a statewide network of urban forestry professionals and interested citizens.

The state's Department of Natural Resources and the state's Community and Urban Forestry

Council are aware of these needs and challenges and have developed program goals that recognize the state's diversity. These goals incorponize the state's diversity.

rate the mission of the Department and the Council by addressing the need to:

- Promote community development and cohesiveness
- Plant the right tree in the right place
- Continue long- term tree stewardship
- Publicize urban forestry
- Expand the community and urban forest
- Educate and train youth in urban forestry



- Assist and support volunteers in urban forestry
- Educate and train all state citizens in urban forestry programs and activities



Trees add beauty and grace to any community setting. They make life mure enjoyable, peaceful, and relaxing.



Trees and landscaping community pride. Studies have shown when communities participate in tree planting they are not likely to maintain and protect their trees.

WYOMING



▲ Wyoming has unique and complex environmental conditions which deserve special consideration. The variety of microclimates can be accounted for by the wide range of elevations, from the 3,125 foot prairie communities to high mountain communities. The highest mountain in Wyoming is 13,804 feet above sea level, (community forestry is rather limited there).

Most communities in Wyoming have an elevation of over 5,000 feet. This results in a shorter growing season and greater temperature extremes, with colder

♣ Pioneers did not practicecommunity forestry in Wyoming.According to W.H. Alderman in the book

temperatures and more variable

first and last frost dates.

Development of Horticulture on the Northern

Great Plains, "it was reported in 1876, nine years

after the town was established, there were only
12 trees in Cheyenne."

- As part of the America the Beautiful program, community street tree inventories are being completed. Cheyenne now documents 17,274 trees. While cottonwood and Siberian elm are the predominant tree species, the inventories also revealed some 40 additional species, from arborvitae to walnut.
- ▲ Wyoming is the nation's least populated State.

The antelope population is
508,634, exceeding the human
population of 453,588. Consequently, the tax base is considerably lower than in other states
and therefore community in-

promote tree planting events. Some goals and emphasis areas for U&CF in Wyoming include:



- Comprehensive tree inventories
- Funding through cost-share programs
- Getting people of all backgrounds involved in communities of all sizes
- Providing technical assistance



People often become personally attached to trees that they or someone they love have planted.

REGIONAL URBAN FORESTRY CONTACTS



Northern Region (RI) Montana/North Dakota/Northern Idaho

Federal Building P. O. Box 7669 Missoula, MT 59807 (406) 329-3521 FAX: 406-329-3132

Rocky Mountsin Region (R2) Colorado/Kansas/Nebraska/South Dakota/ Wyoming

11177 West 8th Avenue P. O. Box 25127 Lakewood, CO 80225 (303) 236-7074 FAX: 303-236-9587

Southwestern Region (R3) Arizona/New Mexico

Coconino National Forest 2323 E. Greenlaw Lane Flagstaff, AZ 86004 (602) 556-7406 FAX: 602-527-9419

517 Gold Ave., S. W. Albuquerque, NM 87102 (505) 842-3422 FAX: (505) 842-3801

Intermountain Region (R4) Nevada/Southern Idaho/Utah/

Federal Building 324 25th Street Ogden, Utah 84401 (801) 625-5189 FAX: 801-625-5127

Pacific Southwest Region (R5) California/Hawaii/Pacific Islands

630 Sansome St. San Francisco, CA 94111 (415) 705-2587 FAX: 415-705-2836

Pacific Northwest Region (R6) Oregon/Washington

333 S.W. 1st Ave. P. O. Box 3623 Portland, OR 97208 (503) 326-2729 FAX: 503-326-5569

Alaska Region (R10)

201 East 9th Ave. Suite 206 Anchorage, AK 99501 (907) 271-2550 FAX: 907-271-3992

STATE URBAN FORESTRY CONTACTS



ALASKA

DNR - Division of Forestry P.O. Box 107005 3601 C. Street, Suite 1058 Anchorage, AK 99510-7005 (907) 762-2125

ARIZONA

State Land Department 1616 W. Adams Phoenix, AZ 85007 (602) 542-4621

CALIFORNIA

California Department of Forestry and Fire Protection 1416 9th Street, Room 1540-38 Sacramento, CA 95814 (916) 653-9448

COLORADO

Colorado State Forest Service Colorado State University Fort Collins, CO 80523 (303) 491-6303

HAWAII

Hawaii Division of Forestry 1151 Punchbowl Street Honolulu, HI 96813 (808) 548-8850

IDAHO

Idaho Department of Lands P.O. Box 670 Couer 'd Alene, ID 83814 (208) 664-2171

KANSAS

Kansas State & Extension Forestry 2610 Claflin Road Manhattan, KS 66502 (913) 537-7050

MONTANA

Montana Department of State Lands - Forestry
Division
2705 Spurgin Road
Missoula, MT 59801
(406) 542-4300

NEBRASKA

Nebraska Forest Service 8015 W. Center Road Douglas County Extension Office Omaha, NE 68124 (402) 444-7804

NEVADA

Nevada Division of Forestry 123 West Nye Road Carson City, NA 89710 (702) 687-4353

NEW MEXICO

New Mexico State Forestry Division P.O. Box 1948 Santa Fe, NM 87504 (505) 827-5842

NORTH DAKOTA

North Dakota State University 1511 East Interstate Ave. Bismarck, ND 58501 (701) 224-4414





OREGON

Oregon Department of Forestry 2600 State Street Salem, OR 97310 (503) 373-7854

SOUTH DAKOTA

124 1st Ave N.M. Watertown, SD 57201 (605) 886-4203

THE TERRITORIES

GUAM

Forestry & Soil Resources
Division, Dept. of Agriculture
P.O. Box 2950
Agana, Guam 96910
(671)734-3948; (671)734-6570
Fax: (671)734-0111 (dial "011")

AMERICAN SAMOA

Land Grant Program
American Samoa Community College
P.O. Box 1362
Pago Pago, American Samoa 96799
(684)699-1394, -2019, -1575
Fax: (684)699-2605 (dial "011")

COMMONWEALTH OF THE NORTHERN MARIANAS

Forestry Section
Department of Natural Resources
P.O. Box 221, CHRB
Saipan, MP 96950
(670)256-3317, -9869
Fax: (670)322-7154 (dial "011")

UTAH

Division of State Lands and Forestry 355 West North Temple 3 Triad Center, Suite 400 Salt Lake City, UT 84180 (801) 538-5508

WASHINGTON

Washington Department of Natural Resources P.O. BOX 47046 1111 Washington St. S.E. Olympia, WA 98504 - 7046 (206) 902-1703

WYOMING

Wyoming State Forestry Division 1100 West 22nd Street Cheyenne, WY 82002 (307) 777-7586

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